	Unit	Northern Parkway (TT0600)		Source of Criteria	Updates since Last Approval (October	
		Interim (Ultimate)	Intersecting Arterials	Side Streets		2019)
eneral Parameters						
Roadway Classification*	(-)	AASHTO Urban Principal Arterial	(North) Peoria Principal Arterial (South) Glendale Principal Arterial	Augusta Avenue: Glendale Local Street Orangewood Avenue: Glendale Collector	Project Partners	
Terrain	(-)	rolling	level	level	Survey	Modified 1/16 per comments from Candidate Alternatives submittal
Average Project Elevation	(ft)	1080	1080	1080	Survey	
Proposed Design Speed	(mph)	60	55	Augusta Avenue: 30 Orangewood Avenue: 40	Project Partners	
Proposed Posted Speed	(mph)	40	45	Augusta Avenue: NA Orangewood Avenue:NA	Project Partners	Modified 7/24 per email with Lemka
Existing Posted Speed	(mph)	40	40	NA	Project Partners	Modified 7/24 per email with Lemka
Existing and Design year ADT	(vpd)	Varies 21389 to 32505 (existing), 55000 to 70000 (design year)	Varies 1889 to 6708 (existing), 4250 to 6750 (design year)	Augusta Avenue: 350 (design year) Orangewood Avenue: 2000 (design year)	Observation, MAG	
Typical Section	(-)	see plans	see plans	see plans	Project Partners	
Right-of-Way width	(ft)	Varies	Varies	Augusta Avenue: 50 Orangewood Avenue: 70	Project Partners	
Basic Number of Lanes	(-)	3	3	Augusta Avenue: 1 Orangewood Avenue: 2	Project Partners	
Roadway Width	(ft)	Varies 84'-146'	Varies	Augusta Avenue: 32' Orangewood Avenue: 48'	Project Partners	Added 5/14/21 per comments from Final Scoping Submittal
Median Width	(ft)	14	Varies	NA	Project Partners	
Shoulder Width (inside)	(ft)	NA .	NA NA	NA	Project Partners	
Shoulder Width w/ Barrier (inside)	(ft)	8	NA	NA	Project Partners	
Lane Width	(ft)	12 Against Curb, 11 Inside	12 Against Curb, 11 Inside	Augusta Avenue: 16 Orangewood Avenue: 12	Project Partners	
Shoulder Width (outside)	(ft)	NA	6	NA	Project Partners	
Shoulder Width w/ Barrier (outside)	(ft)	NA NA	NA 11	NA	Project Partners	
Left Turn Lane Width	(11)	11	11	NA	Project Partners	
Right Turn Lane Width (w/ curb)	(ft)	12	12	NA	Project Partners	
Bike Lane Width	(ft)	6	6	NA	MCDOT	Modified 7/6/20 per comments from Candidate Alternatives submittal
Intersection Radii	(ft)	35	35	30	Project Partners	
Normal Cross Slope	(%)	2	2	2	MCDOT	
Clear Zone Width	(ft)	AASHTO RDG Table	AASHTO RDG Table	AASHTO RDG Table	AASHTO	
Fill Slopes (Max behind Barrier) Fill Slopes (Desirable)	(-)	3:1 6:1	3:1 6:1	3:1 6:1	MCDOT Project Partners	
Cut Slopes (Max)	(-)	3:1	3:1	3:1	MCDOT	
Cut Slopes (Max Desirable)	(-)	3:1	3:1	3:1	Project Partners	
Barrier runout information	(-)	NA NA	NA NA	NA NA	NA NA	Added 5/14/21 per comments from Final Scoping Submittal
Pavement Design Life	(yr)	20	20	20	MCDOT	Added 5/14/21 per comments from Final Scoping Submittal
orizontal Alignment	,			•		
Max Super elevation	(%)	6	4	4	AASHTO	
Min Radius of Curvature for Super	(ft)	1330	1190	Augusta Avenue: 250 Orangewood Avenue: 533	AASHTO	Modified 8/18/20 updated min radius based on design speed and max super
Min Length of Horizontal Curve	(ft)	500 feet l	ong for a central angle of 5 degrees or 10 times design s	peed	AASHTO	
Use Spirals Above Degree of Curve	(°)	NA	NA	NA	ADOT	
Super elevation Transitions	(-)	AASHTO table	AASHTO table	AASHTO table	AASHTO	
Limiting Value of f	(-)	0.12	0.13	Augusta Avenue: 0.2 Orangewood Avenue: 0.16	AASHTO	
Merging Tapers	(-)	DS:1	DS:1	DS:1	AASHTO	
Lane Add Tapers	(-)	25:1	25:1	25:1	Project Partners	
Shifting Tapers (1/2 of Merging Taper)	(-)	DS:1	DS:1	DS:1	MUTCD	Add = 15/44/04 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 =
Maximum Horiz Deflection w/o Curve	(°)	1	1	1	Engineering Judgement	Added 5/14/21 per comments from Final Scoping Submittal

	Unit	Northern Parkway (TT0600)			Source of Criteria	Updates since Last Approval (October
		Interim (Ultimate)	Intersecting Arterials	Side Streets	<u>1</u>	2019)
ertical Alignment						
Max Grade	(%)	3	5	12	Project Partners	
Min Grade (Special Cases)	(%)	0.15	0.15	0.15	MCDOT	
Min Grade (Desirable Minimum)	(%)	0.25	0.25	0.25	MCDOT	Modified 7/6/20 per comments from
						Candidate Alternatives submittal
Min Grade (Curbed)	(%)	0.4	0.4	0.4	Project Partners	
Max Grade Break	(%)	0.2	0.2	0.2	MCDOT	
Assumed Eye Height	(ft)	3.5	3.5	3.5	AASHTO	
Assumed Height of Object	(ft)	2.0	2.0	2.0	AASHTO	
Min Vertical Curve Length	(ft)	180	180	180	Project Partners	

Northern Parkway: Agua Fria River to 9	9th Avenue
	Unit
Utility Design	•
SRP Irrigation	(-)
- Minimum Cover	(ft

	Unit		Source of Criteria	Updates since Last Approval (October		
		Interim (Ultimate)	Intersecting Arterials	Side Streets		2019)
Itility Design		•	<u>.</u>			
SRP Irrigation	(-)	Prior Rig	ht Determination still to be made by SRP/MCDOT/MCI	RED		
- Minimum Cover	(ft)	2 (Class V)/5 (Class III)	2 (Class V)/5 (Class III)	2 (Class V)/5 (Class III)	SRP Water	
- Lateral Clearance	(ft)	4' or Dependent on Prior Right Determination	4' or Dependent on Prior Right Determination	4' or Dependent on Prior Right Determination	SRP Water	
- Material	(-)	Class V RGRCP required under	er all roadways, Class III acceptable outside of Roadwa	y/Driveway crossing prism	SRP Water	
Private Irrigation	(-)					
- Minimum Cover	(ft)		acent private property and installed via Temporary Con			
- Lateral Clearance	(ft)	N/A - To be located on ac	djacent private property and installed via Temporary Co			
Well Sites	(-)					
- SRP Well	(-)	•	roivde R/W and/or Easement needs if relocation neces	SRP Water		
- City of Peoria Well	(-)	Project will be responsible for costs if relocation neces have to p	City of Peoria			
SRP Power	(-)					
-KV12	(-)	Assumed not in by prior	right, any relocations will have to be within the public R	/W via utility permit.	SRP Power/MCDOT	
- 69 kV	(-)	Assumed in by prior right, MCDOT will likely have to	acquire new easement/fee R/W for relocation. 30' aeri around power poles.	SRP Power		
- 230 kV	(-)	Assumed in by prior right, MCDOT will likely have to	SRP Power			
Kinder Morgan (El Paso Natural Gas)	(-)	Assumed to have a dedicated easement				
- Minimum Cover	(ft)	5	5	5	Kinder Morgan (EPNG)	
- Lateral Clearance	(ft)	6-10 (dependent on utility)	6-10 (dependent on utility)	6-10 (dependent on utility)	Kinder Morgan (EPNG)	
Water (Various Owners)	(-)	,	, ; <i>;</i>	· ·	,	
- Minimum Cover	(ft)	4	4	4		
- Lateral Clearance	(ft)	6	6	6	MAG	
Sewer (Various Owners)	(-)					
- Minimum Cover	(ft)	5	5	5		
- Lateral Clearance	(ft)	6	6	6	MAG	
Storm Drain	(-)					
- Minimum Cover	(ft)	1.5	1.5	1.5	MCDOT	
- Lateral Clearance	(ft)	8 (from combustible pipe materials)	8 (from combustible pipe materials)	8 (from combustible pipe materials)	MCDOT	
- Minimum Trunk Line Diameter	(in)	18	18	18	MCDOT	
- Minimum Connector Pipe Diameter	(in)	15	15	15	MCDOT	
- Minimum Crossing Culvert Diameter	(in)	24	24	24	MCDOT	
Other Dry Utils	(-)	Includes: CenturyLir	nk Comm, Cox (Comm & FO), City Peoria ITS and Sign	nal Conduit, etc.		
- Minimum Cover	(ft)	3	3	3		
- Lateral Clearance	(ft)	??	??	??		
rainage Design						
See Drainage Design Criteria document						
ansit Design				·		
Peoria Facilities	(-)	Bus Pullout and Shelter; 175' x 24'			City of Peoria	
Glendale Facilities	(-)		City of Glendale			
ght-of-Way Design						
Acquisition Method	(-)	Acquire land as fee acquisition and convert easements to fee as appropriate			Project Partners	
Types	(-)	Utility, drainage, and temporary construction easements acceptable; Slope easements only permitted if appropriate for driveways			Project Partners	
Increments	(-)	Minimize right-of-way impact; no need to increment right-of-way offset to arbitrary interval or to have right-of-way breaks on even stations			Project Partners	
Geometry	(-)	Curves and non-parallel right-of-way lines are acceptable (priority should be to minimize right-of-way impacts)			Project Partners	
Cut/Fill Daylight Offset	(-)	2 to 3-foot offset from cut/fill daylight to proposed right-of-way			Project Partners	